

23976
H/008/61/014/006/002/003
B122/B227

Measurement of reactor...

buckling distance. For water as moderator of the active zone and as reflector, the diffusion parameters $D_{fr} = D_f$ and $D_{tr} = D_t$. If these are known, criticality k is calculable, and resonance escape probability p is estimable. For quadratic geometry, a subcritical system of infinite length and $2d$ thickness is considered with the thermal plane surface under it. The equations of the two-group method are solved in the same way, when trigonometric and hyperbolic functions appear instead of Bessel functions. The results are converted to the prism of quadratic base, where the active zone - viewed from the middle point of one lateral face - appears infinite. The reflector may be considered infinite. Material buckling is determined like for cylindrical geometry. The results are confirmed by experimental measurements. There are 6 figures and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: J. A. M. Weinberg, E. P. Wigner. The Physical Theory of Neutron Chain Reactors. The University of Chicago Press. Chicago 37. 1958.

ASSOCIATION: Központi Fizikai Kutató Intézet, Budapest (Central Physical Research Institute, Budapest)

Card 4/4

BATA, Lajos; VERTES, Peter

Measuring reactor parameters. III. Energia es atom 14
no.6:274-283 Je '61.

1. Kozponti Fizikai Kutato Intezet.

8

SPUZIC, V.; BATA, M.; CVETOJEVIC, M.

Reaction of the pleura and of the peritoneum of sensitized guinea pigs to repeated application of horse serum. II. Glas Srpske akad. nauka, odelj. med. 217 no.10:85-104 1956.

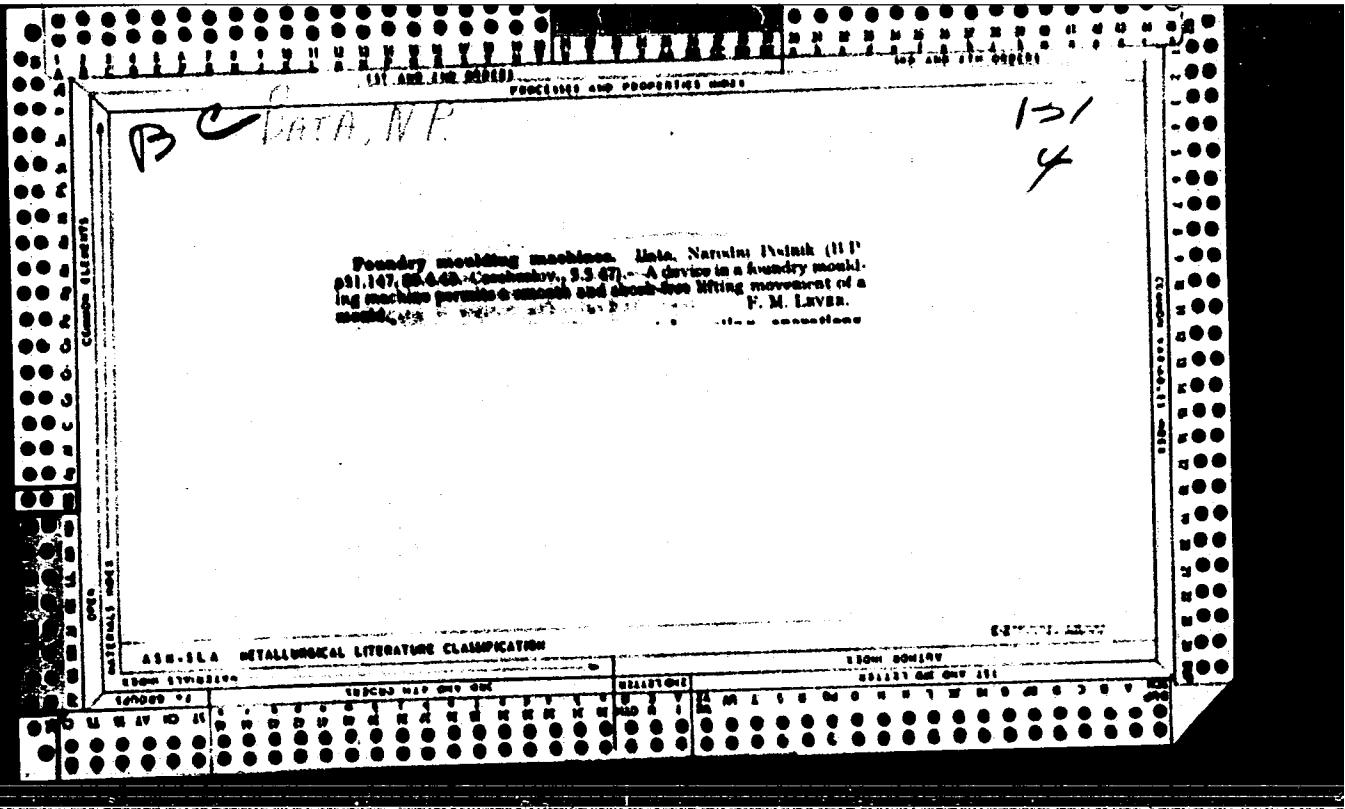
(IMMUNE SERUMS, effects,
horse serum on pleura & peritoneum of sensitized guinea pigs (Ser))

(PLEURA, effect of drugs on,
horse serum of sensitized guinea pigs (Ser))
(PERITONEUM, effect of drugs on,
same)

BOUDA, Milos, inz.; MORAVEC, Miloslav; BATA, Milan, inz.

Roofing of a large industrial hall by garland trusses on cables. Inz stavby ll no.7:259-264 Jl '63.

1. Mostarna Zavodu Vitezneho unora, Hradec Kralove (for Bouda, Moravec). 2. Katedra stavebni mechaniky, Ceske vysoke ucenii technicke, Praha (for Bata).



8A

81
10

Radiators for heating buildings. Mata, Narodni Podnik (B.P. 656.811, 19.10.48, Czechoslovak., 27.10.47) (Soviet 4.48.)—Pipes through which the heating medium flows are embedded in a concrete body having metal particles incorporated therein to improve the thermal conductivity. The concrete body is partly surrounded by a metal sheath provided with corrugations through which air currents rise. One side is not covered by the sheath but has reinforcing wire netting embedded in the concrete.

R. J. COKE

Brit. Abs. BII BATA, N. P.
June 1957

Fibres; Textiles;
Cellulose; Paper

Method and apparatus for tipping and cutting off the inactive threads in a straight-bar sinker-operated knitting machine. Bata N.P. (D.P. 684,312, 19.8.48. Czechosl., 4.9.47).—The motion in the direction of projection of the sinker (i.e., towards the loop being formed) of a clamping and cutting-off device directly associated with the retaining hooks and adapted to hold inactive threads, puts into operation means for introducing one branch of each loop of inactive thread between the clamping jaws "in for severing this branch when propped between the jaws. These means are returned to their initial position by the return motion of the clamping and cutting-off device. Thus, the fold of the loop between the retaining hook and the thread guide is brought reliably between the jaws of the clamping device.

O. POTTER.

BATA, V.

"A new development in welt sewing machines."

P. 124 (*Kosarstvi*) Vol. 6, no. 7, July 1956.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BATA, V.

Stitching of shoes and the importance of the knife for sand shaving .

P. 184, (Kozarstvi) Vol. 7, no. 7, July 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

BATA, V.

TECHNOLOGY

periodicals: KOZARSTVI Vol.8, no:7, July 1958

BATA,V. Welt loosening in the front of shoes. p.210

Monthly List of East European Accessions (EEAI) LC Vol.8, no.5
May 1959, Unclass.

BATA, Viktor

Production of welt insoles. Kosarskyi 13 no.3:80-83
Mr. '63.

l. Svit, n.p., Gottwaldov.

DZHADASOV, M.Kh.; DATABERGENOVA, N.Sh.

Formation of underground waters in the lower Karatal Valley
(southern part of the Lake Balkhash region). Trudy Inst. geol.
neuk AH Kazakh SSR no.14:131-137 '65. (MIRA 19:1)

BATACUI, C., ing.

Mining industry, a new branch in full development in the Oltenia region. Rev min 15 no.8:405-409 Ag '64.

1. Director, Oltenia Mining Trust.

BATACUL, C.; FADEL, N.

BATACUL, C.; FADEL, N. Coal extraction by open-pit mining P. 332.

Vol. 7, no. 7, July 1956

REVISTA MINELOR

TECHNOLOGY

Bucuresti, Romania

So: East European Accession, Vol. 7, no. 3, March 1957

STAN, I.; TOTH, S.; PENCIUC, T.; BATAGA, E.

Influence of the variation of the form of the earth on its motion. Studia Univ B-B S. Math-Phys 9 no.1:105-109 '64.

STAN, I.; TOTH, S.; PENCIUC, T.; BATAGA, E.

Influence of the variation of the form of the earth on its
one motion. Pt.2. Studia Univ B-B S. Math-Phys 9 no.2:77. 81
'64.

POPA, B., prof. ing.; BATAGA, N., ing.

Principles and methods of temperature measurement. Metrologia
apl 9 no.5:196-206 S-0 '62.

POPA, B., prof. ing.; BATAGA, N., ing.

Principles and measuring methods of temperature. Pt. 2.
Metrologia apl 9 no.6:259-270 N-D '62.

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7

POPA, B., pref. ing.; BATAGA, N., ing.

Analysis of flue gases by chemical and chromatographic methods.
Metrologia apl 11 no. 2:64-68 F '64.

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7"

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7

POPA, Bazil, prof. ing.; BATAGA, Nicolae, assist. ing.

Equipment of turbines with gas for automobiles. Rev transp 11 no. 4154-
160 Ap '64.

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7"

69363

SOV/123-59-19-79470

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 19, p 217 (USSR)

18 4000

AUTHORS: Batagov, B., Martynov, V.

TITLE: The Economic Efficiency of Mass Line Production of Steam and Gas Turbine Blades From Blanks With Small Tolerances

PERIODICAL: Tr. 1-y Ekon. konferentsii TsNIITMASH, 1957, Moscow, 1958, pp 71 - 82

ABSTRACT: Data are given of the TsNIITMASH (Central Scientific Research Institute of Heavy Machinery) concerning the improvement of the manufacturing technology for blades from forgings with tolerances of the operational profile that permit a finishing by grinding or polishing, and for blades made of castings by the dispensable pattern method. The equipment for the casting of nozzle blades by the dispensable pattern method is laid out in accordance with the technological process: Melting tub with water preheating, plate for the assembly of models, tub for the painting of models, sand pouring device with pneumatic feed of spent sand, drier for the drying of models, vibration table for flask molding, gas-type compartment kiln for the baking of flasks, electric arc furnace for metal smelting, table for the filling of molds, shot blast installation. Tolerances for

Card 1/2

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SOV/123-59-19-79470

The Economic Efficiency of Mass Line Production of Steam and Gas Turbine Blades From Blanks With Small Tolerances

the mechanical treatment of the profile of the blades operating parts amount to 0.2 - 0.3 mm. The surface quality of the cast blade corresponds to the 5th class of finish (GOST 2789-51). Metal consumption for the manufacture of blades by precision casting is 6 times less, production cost twice lower, than in the case of hammer forging. 14 figures, 2 references.

Ya.N.P.

Card 2/2

BATAGOV, B.N.

Dinamicheskoe ispytanie stali dlia shtokov shtampovochnykh molotov. (Vestn. Mash.,
1950, no. 8, p.31-36

Dynamic load testing of steel for drop hammer rods.

DLC: TN4, V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

BATAGOV B.N

207/2 Book Catalogue

Akademie-Verlag, Berlin. *Zastroya metalurgii. Rukhomyt' sotov po probleme sharo-podklyuchivaniya*. Izdatel'stvo znanii, str. 2 (izdatel'stvo na uchebochnykh i uchebno-tekhnicheskikh svedeniiakh). Izdatel'stvo Akademii Nauk SSSR, 1979, 423 p. Kremnitsa slyp. Izdert.

Nauchnoe izdatel'stvo: V.A. Chubaryi, Tsch. M.I. L'vov (red.) *Material'*. Izdatel'stvo Akademii Nauk SSSR, 1979, 420 p. Kremnitsa slyp. Izdert.

Nauchnoe izdatel'stvo: I.P. Baril'skiy, Amedzhidov, G.V. Dzengarashvili, Amedzhidova, N.F. Asprer, T.M. Pervler, N.M. Sosulin. *Uchenye Akademii Nauk SSSR po tekhnicheskym voprosam*. Izdatel'stvo Akademii Nauk SSSR, 1979, 224 p. Kremnitsa slyp. Izdert.

Promtorg: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of interest to students of advanced courses of metallurgy.

CONTENTS: This book, consisting of a number of papers, deals with the properties of heat-resistant steels and alloys. Each of the papers is devoted to the study of one feature which affects the properties and behavior of the artifacts of machine elements such as Cr, Ni, and V in the heat-treating processes of various alloys are studied. Permeability and vulnerability of certain steels are related to the thermal conditions and the object of another paper described. The problems of hydrogen embrittlement, diffusion and the deposition of metallic coatings on metal surfaces by means of electrophoresis are examined. One paper describes the apparatus and methods used for growing monocrystals of molybdenum. Another paper describes the behavior of steels of various types of interatomic bonds and the behavior of steels in metal fluxes of carbon and composite blades are described. No permeabilities are mentioned. Reference monographs about the properties of various steels and composite blades are mentioned.

Editor: I.M. Martsynov, and N.G. Tolstaya. *Production of Forge* Steel and Composite Blades

Dobroletskiy, V.I., and B.D. Zvezdochkin. *Developing Apparatus and Methods for Obtaining Homogeneous Powders of Metals*

Korostenskiy, I.E. *Vorazhe and Its Effect on the Properties of Certain Nickel Alloys*

Kudryavtsev, P.I., V.I. Likhachev, and N.S. Gorbatova. *Adiabatical Decrease in Strength of Metal Monocrystals and Spontaneous Dispersion in a Liquid Medium. Diffusion Coatings on Polydeutrium*

Ogurcov, A.P., V.I. Gerasimov, and G.Ye. Zarodov. *Application of Ceramic Coatings by the Electrolytic Method*

Tomashov, A.D., K.I. Negeberidze, and A.I. Kerzina. *Heat Resistance of Ceramics*

El'stren, O.V., and A.V. Stepanov. *Temperature Dependence of Plasticity and Strength of Metals and Alloys*

Zhukovskiy, A.A., A.D. Solntsev, and I.Z. Bobyleva. *Study of Thermodynamic Characteristics of Interatomic Bonds and of the Mobility of Atoms in Alloys*

Chudoretskiy, I.P. *Study of Thermal Characteristics of Alloys*

Oleshevskiy, K.V., and I.P. Nogachukov. *On Methods of Testing Blade Materials for Erosion and Corrosion Resistance Under Simulated Operating Conditions*

Davidenko, E.N., and D.M. Vestil'yan. *Plastometric Study of Relaxation of Plastically Deformed Alloys*

Lerberg, S.V. *Method of Elevation by Forge with the Use of Back Pressure*

Kusnetsov, I.D. *Basic Problems in Mechanical Properties of New-Generation Alloys*

Library of Congress

BATAGOV, B.N.; POVAROV, V.S.

Hot extrusion of shaped blanks for compressor blade forging on a
trial 200-ton hydraulic press. Kuz.-shtam.proizv. l no.11:19-23
N '59. (MIRA 13:3)
(Extrusion process) (Compressors--Blades)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7

BATAGOV, B.N.; MARTYNOV, V.N.; POVAROV, V.S.

Progressive steps in the manufacture of forgings for steam and
gas turbine blades. Kuz.-shtam.proizv. 2 no.1:17-19
Ja '60. (MIRA 13:5)
(Forging) (Turbines--Blades)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7"

BATAGOV, I. K.

Vozmozhnosti uluchshenia konstruktsii krivoshipnykh pressov i avtomatov.
(Vestn. Mash., 1950, no. 4, p. 47-49)

(Possibilities of improving the design of crank presses and automatic machines.)

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

BATAGOV, I. K.

O zapasakh prochnosti stanic sovremennoykh krivoshipnykh pressov-avtomatov.
(Vestn. Mash., 1950, no. 6, p. 9-13)

Includes bibliography.

(Safety factors of modern automatic crank presses.)
~~tales~~

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

(Possibilities of improving the design of
crank presses & automatic machines.)
Vestn. Mash., 1950, No. 4, pg 47-49)

BATAGOV, I. K.

BATAGOV, I. K. "Investigation of the Process of Trimming as Applied to the Operation of Automatic Trimming Presses." Min Higher Education USSR. Moscow Order of Lenin and Order of Labor Red Banner Higher Technical School imeni Faumen. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 19, 1956.

BATAGOV, I. K., Cand Tech Sci (diss) -- "Investigation of the cutting process
on automatic cutting presses (Producing nuts and bolt heads by excavation)".
Moscow, 1959. 11 pp (Min Higher Educ USSR, Moscow Machine-Tool and Tool
Inst im I. V. Stalin), 150 copies (KL, No 9, 1960, 124)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7

METELKIN, G.G., inzh.; BATAGOV, V.M., inzh.

Pipeline assembly according to fitting diagrams. Sudostroenie
25 no.7:48-49 Jl '59.
(Marine pipe fitting) (MIRA 12:12)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7"

METELKIN, G.O., inzh.; BATAGOV, V.M., inzh.

Standardization of light partition elements. Sudostroenie 25
no.12;47-48 D '59. (MIRA 13:4)

(Bulkheads (Naval architecture))

BATAGNI, etc.

28921

S/056/61/041/004/004/019
B108/B102

3,9410

AUTHORS: Bosoki, G., Fen'vesh, E., Shandor, T., Balea, O., Batagni, M.,
Fridlander, Ye., Betev, B., Kavlakov, Sh., Mitran, L.

TITLE: Absorption of nuclear-active cosmic-ray particles in air

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,
no. 4(10), 1961, 1043-1045

TEXT: The absorption of the nuclear-active component of cosmic radiation in air was measured at various altitudes above sea level. Showers were recorded with a coincidence arrangement of counters installed in a lead block (Fig. 1). The muon background was measured in Budapest 8 m underground (17 m water equivalent) to secure the recording of sixfold-coincidences due to muons only. The sixfold coincidences were recorded by the pair-connected counters 5 and 7, and 6 and 8. This underground measurement, together with the other measurements at various altitudes, made it possible to obtain corrections for background to the coincidence measurements with nuclear-active cosmic-ray particles. Results:

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4X

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Absorption of nuclear-active cosmic-...

28921
S/056/61/041/004/004/019
B108/B102

Place of measurement	Depth, g/cm ²	Coincidences per hour
Bucharest (80 m above sea level)	1009	1.00 ± 0.04
Budapest (410 m)	969	1.55 ± 0.04
Bushteni (950 m)	907	2.37 ± 0.04
Pik Stalina (2925 m)	703	13.67 ± 0.11

The absorption mean free path λ_a for nuclear-active particles in air was found to be $(119 \pm 1) \text{g/cm}^2$. From the frequency of coincidences, the authors estimated the particle mean energy to amount to 30 Bev. The authors thank Professor L. Yanoshi, Professor G. Nadzhakov, and Professor I. Auslender for their interest and advice, N. Akhababyan, I. Kh. Ionn,

Card 2/4

28921

Absorption of nuclear-active cosmic-...

S/056/61/041/004/004/019
B108/B102

Y. Kokh, G. Taler, K. Tsige'man, and Y. Shnirer for the installation of the experimental device, and E. Rupp for assistance in calculations. Mention is made of Sh. A. Azimov, V. F. Vishnevskiy, N. I. Khil'ko (DAN SSSR, 18, 231, 1951), and of K. P. Ryzhkova and L. I. Sarycheva (ZhETF, 28, 618, 1955). There are 2 figures, 1 table, and 8 references; 3 Soviet-bloc and 5 non-Soviet. The four references to English-language publications read as follows: I. Tinlot, Phys. Rev., 74, 1197, 1948; L. Hodson, Proc. Phys. Soc., A65, 702, 1952; E. P. George, A. Jason, Proc. Phys. Soc., A63, 1081, 1950; H. S. Bridge, R. H. Rediker, Phys. Rev., 88, 206, 1952.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut fiziki Vengorskogo Akademii nauk, Budapest (Central Scientific Research Institute of Physics of the Hungarian Academy of Sciences, Budapest) (G. Bozoki, E. Fen'vesh, T. Shandor), Institut yadernoy fiziki v Bukhareste, Rumyniya (Institute of Nuclear Physics in Bucharest, Romania) (O. Balea, M. Batagui, Ye. Fridlender), Fizicheskiy institut s atomnoy nauchno-eksperimental'noy bazoy v Sofii, Bolgariya (Institute of Physics With Atomic Scientific Test Base in Sofia, Bulgaria) (B. Betav, Sh. Kavlavakov, L. Mitran).

Card 3/4

BATAL, Janos

History of the canalization of Pecs. Pecsi műsz szeml 9
no.3:14-18 J1-S '64.

B. TAT, Janos

History of canalization in Pecs. Pt.2. Pecsi műsz szeml 9
no.4121-4 of cover O-D '64.

~~BATAKOV, Aleksandr Tikhonovich; ZHIL'TSOV, Nikolay Ivanovich; LEVSHTEYN,~~
~~Mikhail Iosifovich; MIL'CHIN, A.N., redaktor; ALEXANDROV, V.I.,~~
~~tekhnicheskiy redaktor; CHICHERIN, A.N., tekhnicheskiy redaktor~~

[Principles of building printing machinery] Osnovy poligraficheskogo mashinostroeniia. Moskva, Gos.izd-vo "Iskusstvo," 1956. 263 p.
(Machinery industry) (Printing machinery and supplies) (MIRA 9:3)

BATAKOV, Aleksandr Tikhonovich; BORISOV, Vladimir Ivanovich;
ROZENFEL'D, Petr Yakovlevich; CHERNYSHEV, A.N., kand.tekhn.
nauk, retsenzent; LAVROV, G.A., inzh., retsenzent; KOND-
VALOV, G.M., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Printing machinery] Poligraficheskie mashiny. Pod obshchel
red. A.T.Batakova. Moskva, Gos.nauchno-tekhn.izd-vo mashino-
stroit.lit-ry, 1959. 515 p. (MIRA 12:8)
(Printing machinery and supplies)

BATAKOV, P.P. (Kirovsk, Murmanskoy oblasti)

Pathogenesis of vitiligo. Vest.derm.i.ven. 33 no.4:78 Jl-Ag '59.
(SKIN--DISEASES) (MIRA 12:11)

~~BATAKOV, Vladimir Yefimovich; SOKOLOVA, Ye., red.; KUZNETSOVA, A., tekhn.~~
red.

[When the workday is over] Kogda okonchen rabochii den'. Moskva,
Mosk. rabochii, 1961. 58 p.
(Moscow—Leisure) (MIRA 14:9)

TODOROVIC-LERO, Zagorka; BATAKOVIC, Tomislav

Diagnostic and therapeutic problems in peripheral lymph node tuberculosis (analysis of cases treated in 1963 and 1964 in the Military Institute - preliminary communication). Tuberkuloza 16 no. 5447-453 -D '64

1. Vojni institut za tuberkulozu, Beograd (Nacelnik: prof. dr. M. Tucakovic).

USSR/Cultivated Plants - Fodders.

M-4

Abs Jour : Ref Zhur - Biol., № 7, 1958, 29834

Author : Bataleva, N.

Inst : The Institute for Agriculture at Przheval'sk

Title : Protein Fodders in the Region of Issyk-Kul'

Orig Pub : S. kh. Kirgizii, 1957, No 5, 19-22

Abstract : The cultivation of peas in a planting together with the sunflower for ensilage by the auxiliary site of the Institute for Agriculture at Przheval'sk yield bumper crops and fine quality of ensilage.

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L 13105-66

EWT(m)/EPP(n)-2/T/EWP(t)/EWP(b)/EWA(c)

IJP(c) JD/WW/HN/JG

ACC NR: AP5025792

SOURCE CODE: UR/0363/65/001/009/1554/1557

AUTHOR: Kuprina, V. V.; Bataleva, S. K.; Sokolova, I. G.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

38
B

TITLE: Study of alloys of the zirconium-cobalt system

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 9,
1965, 1554-1557

44, 55, 37, 55, 77

TOPIC TAGS: zirconium compound, cobalt compound

ABSTRACT: The phase diagram of the zirconium-cobalt system was studied by microscopic and x-ray diffraction methods from room temperature up to 950°C. The existence of the chemical compounds ZrCo, Zr₂Co, and Zr₃Co crystallizing from the liquid state and forming broad regions of mechanical mixtures of eutectic and peritectic types was established for the first time and the structure of the compounds was determined. The existence of the chemical compound ZrCo₂ was also confirmed. CoZr has a CsCl-type cubic lattice with $a = 3.163 \pm 0.003 \text{ \AA}$. CoZr₂ has a CuAl₂-type tetragonal lattice with $a = 6.425 \pm 0.003 \text{ \AA}$, $c = 5.726 \pm 0.003 \text{ \AA}$

UDC: 546.831'73

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L 13105-66

ACC NR: AP5025792

and $c/a = 0.860$. CoZr₃ has an MgCd₃-type hexagonal lattice with $a = 5.966 \pm 0.003 \text{ \AA}$, $c = 4.660 \pm 0.003 \text{ \AA}$, and $c/a = 0.781$. Orig. art. has: 1 figure.

SUB CODE: 11/ SUBM DATE: 24Apr65/ ORIG REF: 001/ OTH REF: 007

Card 2/2

~~BATALIN, A.~~ instruktor-obshchestvennik (g. Kaluga)

Young parachutists of Kaluga. Kryl.rod. 7 no.5:8 My '56.

(Kaluga--Parachutists)

(MLRA 9:8)

L 07125-67 EWT(1)
ACC NR: AN7001055

SOURCE CODE: UR/9012/66/000/197/0002/0002

AUTHOR: Batalin, A. (Department chief)

ORG: Department of Marine Physics, Far Eastern University, Vladivostok, (Kafedra fiziki morya Dal'nevostochnogo universiteta) 11
7
8

TITLE: How to exploit the wealth of the ocean ✓

SOURCE: Pravda, 16Jul66, p. 2, col. 3-7

TOPIC TAGS: fishing ship, oceanography

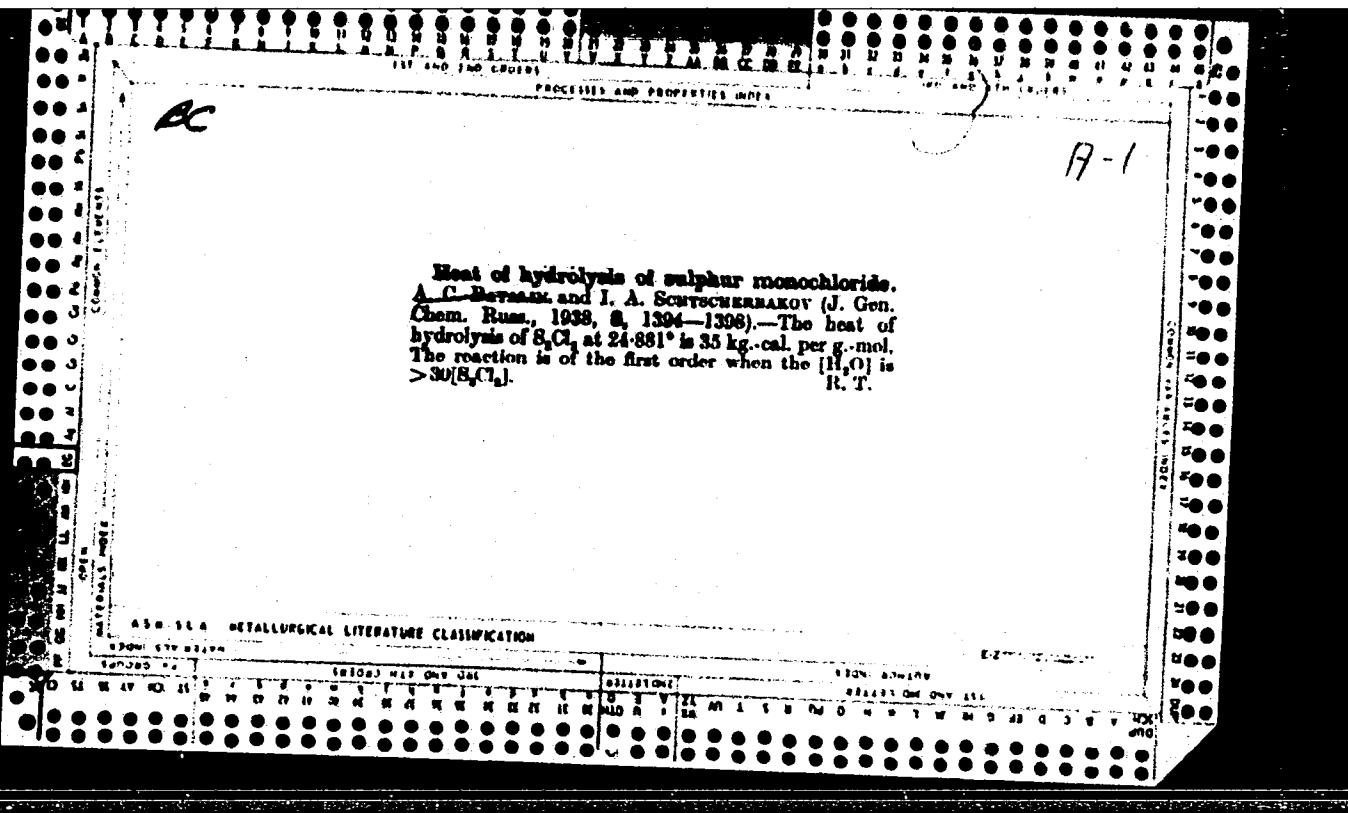
ABSTRACT: The development of the Far Eastern economy as a whole is linked closely to the exploitation of the resources of the Pacific Ocean. At present it is mostly the northwestern part of the ocean which is exploited, but the first steps are being taken to use the enormous fish resources of the southern part. Expeditions of the Pacific Ocean Scientific Research Institute of Fisheries and Oceanography (TINRO) show that tremendous quantities of fish can be taken in that region. Until recently it was assumed that commercial fish lived only in the upper layers of the ocean, but Far Eastern fishermen have demonstrated that they are present at far greater depths and fishing should be done on the continental slope to depths of several hundred meters. However, exploitation of the new areas and depths is progressing slowly; much

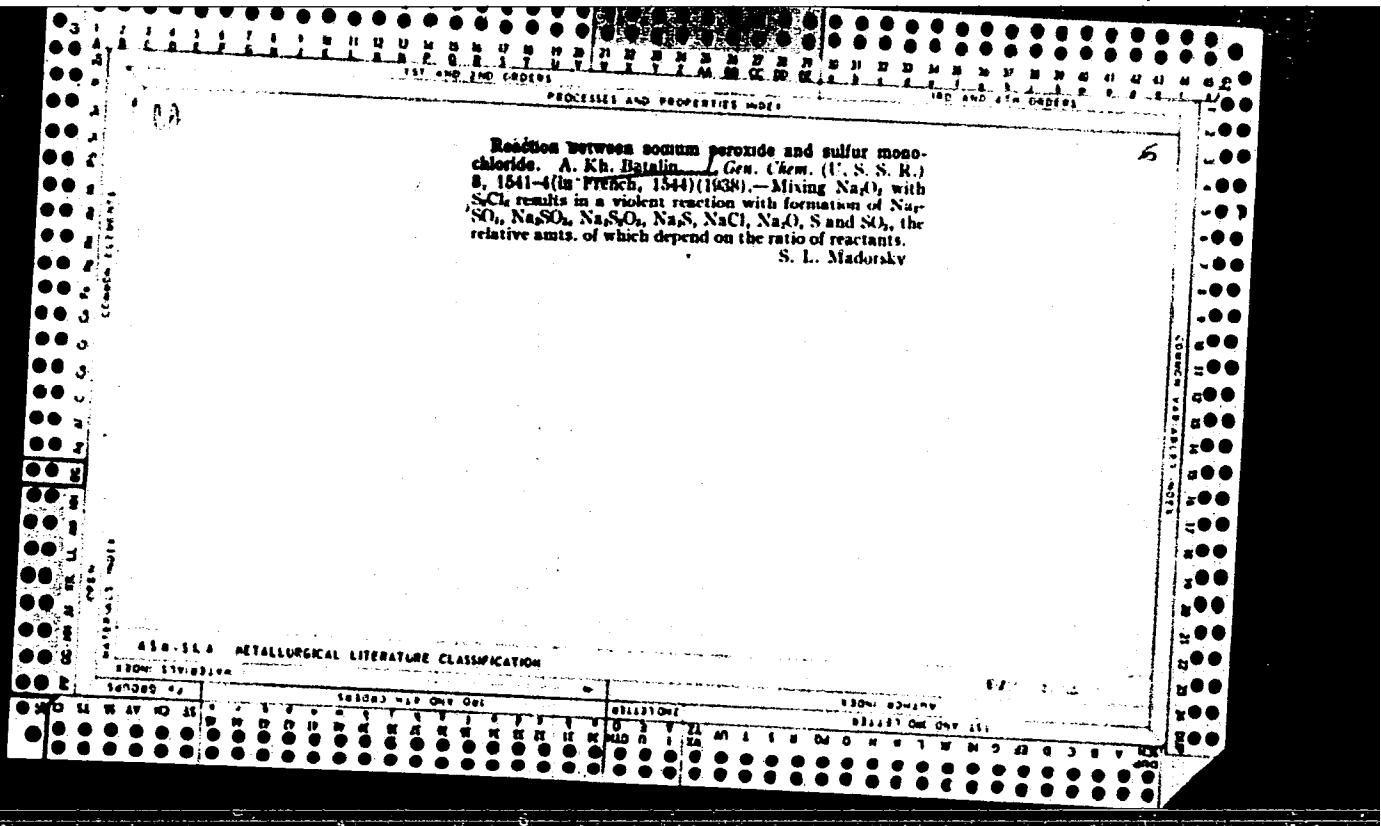
S

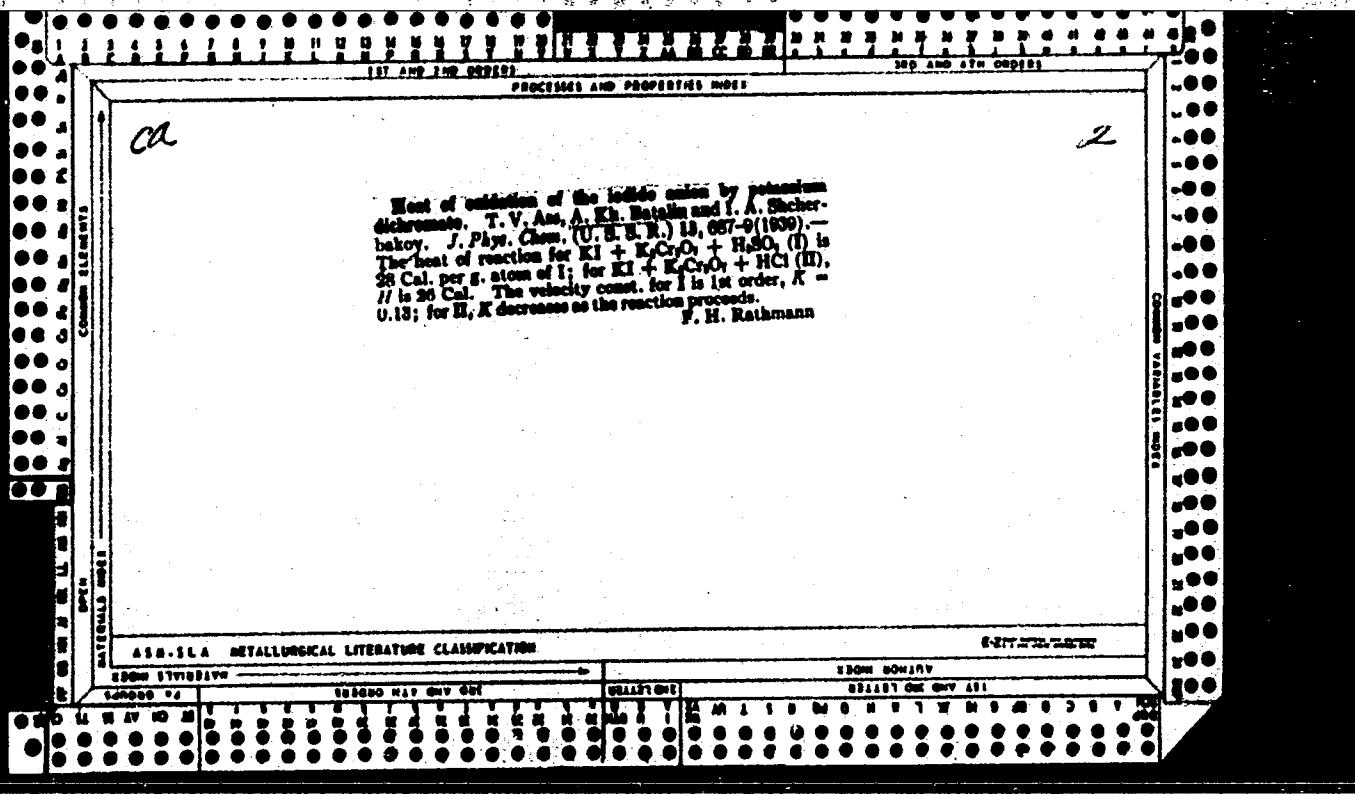
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Card 1/2

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Reactions of S_2Cl_2 with some metal oxides. A. Kh. Batalin, Nauch. Zapiski Ural'sk. Akad. Sotsialist. Znachodki, Arzamas, 2, 125-140 (1940); Khim. Referat. Zhur., 6, No. 9, 24 (1941); cf. C. A. 35, 2408. — Reactions between S_2Cl_2 and CuO , Cu_2O , Ag_2O , MgO , CaO , Na_2O , ZnO , CdO , HgO , Al_2O_3 , PbO and Pb_2O_3 were studied. In most cases the reactions resulted in the formation of chlorides, sulfides, SO_2 and free S ; sometimes sulfates were formed. Na_2O , CdO , Ag_2O , HgO , PbO and Pb_2O_3 at room temp. reacted violently with S_2Cl_2 with a considerable evolution of heat; frequently an explosion took place. On heating to 100–200° CuO , Cu_2O , MgO , CaO , ZnO and SO reacted energetically with S_2Cl_2 . Al_2O_3 and Pb_2O_3 reacted very weakly with S_2Cl_2 even on prolonged heating. X-ray results indicate that oxides with small heats of formation react easily with S_2Cl_2 .

W. K. Hens

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7"

BATALIN, A. M. SCHIRBAKOV, I. A.

"The Heat Induced Reaction of Sulfur Monochloride with Methyl and Ethyl Alcohols"
Zhur. Obshch. Khim. 10 No. 8, 1940. Chair of General Chemistry, First Kar'kov
Medical Inst. Received 21, October 1939.

Report U-1627, 11 Jan. 52.

c4

Microchemical analysis in Russia. A. Kh. Batalin
A. A. Andreev Agt. Inst. Chkalov, U.S.S.R.)
Zhur. Khim., 4, 308-12 (1949). Review. M. Hoch

BATALIN, A. KH.

28229

Iz istorii mikrokhimicheskogo analiza v rossii. zhurnal analit. khimii, 1949
BYP. 5, s. 308-12 - Bibliogr: 11, nazv.

SO. LETOPIS NO. 34

CA

1

New test for trivalent arsenic. A. Kh. Batalin (A. A. Andreev Agr. Inst., Chkalov). "Zhur. Akad. Nauk SSSR," 1950, No. 9, p. 129 (1950).—The test is based on the reduction of Cr in $\text{Cr}_2\text{O}_7^{2-}$ or CrO_4^{2-} by AsO_4^{3-} to Cr^{3+} . To 1 ml. of 0.1 N bichromate or chromate soln. add the soln. to be tested and 1-3 drops of concd. HCl or H_2SO_4 . If the soln. turns green, arsenite may be present. None of the cations except Fe^{2+} and Sn^{2+} interfere. The interfering anions are SO_4^{2-} , NO_3^- , $\text{Fe}(\text{CN})_6^{4-}$, and $\text{Fe}(\text{CN})_6^{3-}$. When only AsO_4^{3-} is present, the sensitivity of this test is $1:10,000$. M. Ilsech.

CA
9

Work of Russian scientists in colorimetry and nephelometry. A. N. Batalin. Zvezdnye Lab. 16, 1411-10 (1930).—A review of the early work (32 references) dating from 1795 on. G. M. Kowolapoff

BATALIN, A.-Kh.

Chem Abs v 48

1-25-54

analytical Chemistry

G. M. Kosolapoff
Development of gravimetric and volumetric analysis in
Russia. A. Kh. Batalin. Uspekhi Khim. 20, 373-81
(1951).—Historical review with 105 references.

G. M. Kosolapoff

3

① Chem

MF
5-6-54

cA

*General & Physical
Chemistry - 2*

History of biological chemistry in Russia in the eighteenth
and in the first quarter of the nineteenth centuries. A. Kh.
Retallack (Agr. Inst., Chkalov). *Niezhinys* 17, 304-10
(1832). H. Priestley

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7

МАЛЕНКОВА, А. В.

Role of the St. Petersburg Mint in the development of chemistry in Russia.
Usp. khim. 21, no. 7, 1952

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7"

BATALIN, A. Kh.

Analytical Abst.
Vol. 1 No. 1
Jan. 1954
Inorganic Analysis

23. *p*-Anisidine—a sensitive reagent for cuprion ion.
A. Kh. Batalin (*J. Anal. Chem., U.S.S.R.*, 1954, 29, 182-183).—Aq. solutions of *p*-anisidine and Cu⁺ salts give a yellow green ppt. changing to deep violet in 5 to 8 min. A violet colour without ppt. occurs with small amounts of Cu with a detection limit of 4 µg in 1 ml. In presence of a large excess of CNS⁻ or 1' higher concn. of Cu give a red ppt. and small concn. a cherry-red solution. Decoloration is effected with aq. NH₃, citrates, pyrophosphates, and a large excess of mineral acid. Two to three drops of a reagent, prepared by dissolving 1 ml of a saturated solution of *p*-anisidine in 100 ml of 0.1 N CNS⁻ or 1', added to 1 ml of Cu solution, 0.6 µg can be detected. The sensitivity is unaffected by 500 times the amount of Mn, Al, Zn, Mg, Cd, Ni, Cr, alkali metals, alkaline earths, and Fe⁺⁺, by 50 times the amount of Co, Ag, Sn, U, Ce, Hg⁺⁺, and by 5 times the amount of Sb and Hg. NaF can be added to prevent interference from Fe⁺⁺. G. S. SMITH

(1) Chem
MF AF22-5

BATALIN, A. Kh.

Chemical Abstracts
May 25, 1954
Soils and Fertilizers

(3)
Determination of alkaline earth metals in soils. A. Kh. Batalin and E. Yu. Perel'man (A. A. Andreev Agr. Inst., Chkalov). Pochvovedenie 1953, No. 11, 97-9.—The method is a refinement of the one used by Kobell (*J. prakt. Chem.* 14, 879-80(1838)) and Döbereiner (*Ibid.* 15, 317(1838)). It consists of converting the alk. earth bases into carbonates, pptg. them first as oxalates, igniting, and treating the residue with NH₄ carbonate to obtain the carbonates. The method is described in detail. J. S. Joffe

BATALIN, A.Kh.

An outstanding Russian chemist Konstantin Vasil'evich Kharichkov. Zhur.
Priklad. Khim. 26, 449-56 '53.
(CA 47 no.19:9681 '53) (MLRA 6:5)

I. A.A. Andreyev Agr. Inst., Chkalov, R.S.F.S.R.

BATALIN, A. Kh.

✓ 2083. Determination of bivalent manganese by
means of oxalic acid. A. Kh. Batalin and I. V.
Sadovskaya. Vestn. Metal. Obrab. (no. 1).
Mendeleev. Chelovek i Zem. 1954, (5), 19-33; Ref.
Zhur. Khim., 1955, Abstr. No. 26, 462.—To detect
 Mn^{2+} , 1 ml of the solution is shaken with 2 drops of
25 per cent. NaOH soln. and 1% oxalic acid is added
dropwise. The ppt. dissolves to give a raspberry-red
soln. The complex with oxalic acid starts to form
at pH \approx 7. The min. amount detectable is 6 μg
of Mn per ml. and the limiting dilution is 1 in
200,000. Most of the usual cations do not interfere
and do not lower the sensitivity. Interference is
caused by reducing agents, e.g., Fe^{2+} , $\text{Fe}(\text{CN})_6^{4-}$ and
 SO_4^{2-} , and large amounts of Ca . Tartrate, citrate,
 $\text{K}_2\text{P}_2\text{O}_7$, NH_4Cl , NaF , sodium acetate, Na_2HPO_4 ,
 Na_2CO_3 and ammonium carbonate do not interfere.

G. S. SMITH

PM
MM

BATALIN, A. Kh.

1952. Use of ammonium salts in analytical chemistry. [Detection of iron, manganese and copper.] A. Kh. Batalin and G. S. Smith. (Zhurnal Obshchey Khimii, 1952, 26, No. 1, 1134, 1134, (8), 37-50; Zhur. Khim., 1952, Abstr. No. 26,387.)—Certain peculiarities of dissolution of heavy-metal hydroxides and ferrocyanides in conc. solutions of ammonium salts in the presence of NaOH are studied. To separate and detect Fe⁺⁺⁺ in the presence of Cu⁺, Mn²⁺, Cd⁺, Bi⁺⁺⁺, Ni²⁺, Co²⁺, Pb²⁺, Cr⁺⁺⁺ and Al³⁺, the solution is treated with excess of K₄Fe(CN)₆, followed by excess of conc. ammonium chloride or nitrate solution and then by excess of 10 per cent. NaOH solution. Only Fe and some of the Mn is pptd. Some of the solution is filtered and the ppt. is treated with a few drops of HCl to give Prussian blue, which indicates the presence of Fe. To separate Mn²⁺, the mixture of cations is treated with excess of NH₄Cl and excess of NaOH and the solution is filtered quickly. After 5 to 10 min. ppt. of MnO₂ appears in the filtrate; Mn is identified by means of one of the usual methods. To detect Cu⁺ in the presence of Fe⁺⁺⁺, the solution is treated with K₄Fe(CN)₆, an excess of NH₄⁺ and an excess of NaOH. The ppt. contains Fe(OH)₂ and the solution is coloured blue from [Cu(NH₃)₄]⁺.

G. S. SMITH

BATALIN, A.Kh.

~~N.E.Laskovskii, investigator of proteins. Biokhimiia, 20~~
no.4:507-510 Jl-Ag '55. (MLRA 8:12)

(PROTEINS,
hist. of research, contribution of N.E.Laskovskii)
(BIOGRAPHIES,
Laskovskii, E.N.)

BATALIN, A. Kh.

BATALIN, A. Kh.

The Russian analytical chemist Nazarii Andreevich Ivanov. Soob.o
nauch.rab.chl.VKHO no.1:47-50 '55. (MIRA 10:10)
(Ivanov, Nazarii Andreevich, 1816-1883)

Batalin, A.Kh.

USSR/ Analytical Chemistry - Analysis of Inorganic Substances G-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12102

Author : Batalin A.Kh.

Inst : Chkalov Chapter of the All-Union Chemical Society
imeni D.I.Mendeleyev

Title : Detection of Hydroxylamine by means of Salts of Molybdenic Acid

Craig Pub : Vestn. Chkalovsk. otd. Vses. khim. o-va im. D.I.
Mendeleyeva, 1956, No 6, 21-22

Abstract : On addition to a 0.01 M solution of $(\text{NH}_4)_2\text{MoO}_4$ of 0.1 or 0.01 M solution of hydroxylamine hydrochloride or sulfate, a yellow-colored complex is formed. On heating the coloration becomes intensified and on boiling it changes to orange-red. The color persists for a long time without change (begins to fade after 5 hours). The solution becomes turbid, and an orange-red precipitate is formed, which goes in solution on boiling. Intensity of coloration

Card 1/2

Batalin, A. Kh.

USSR/ Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12101

Author : Batalin A. Kh.

Inst : Chkalov Chapter of the All-Union Chemical Society
imeni D.I. Mendeleyev

Title : Sensitive Reaction for Nitrous Acid Anion

Orig Pub : Vestn. Chkalovsk. otd. Vses. khim. o-va im. D. I.
Mendeleyeva, 1956, No 6, 23-27

Abstract : To the mixture under study are added 1-2 drops of 1% solution of rivanol and 0.5-1 ml 1 N HCl, H_2SO_4 , or $H_2C_2O_4$. A red coloration indicates the presence of NO_2^- anion. The reaction is not interfered with by NO_3^- , PO_4^{3-} ,
 $C_2H_3O_2^-$, $Cr_2O_7^{2-}$, Br^- , F^- , Cl^- , $S_2O_3^{2-}$, SO_3^{2-} , SO_4^{2-} ,
 CO_3^{2-} , $Fe(CN)_6^{3-}$, H_3BO_3 , tartrates, Fe, Cu, Mn, Ni, Co,

Card 1/2

USSR/ Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12101

Cd, Zn, Cr, Al, Sn, Sb, Bi, Pb, Hg, Ag etc. Intensity of coloration is directly proportional to the concentration of NO_2^- in the solution. On quantitative determination of NO_2^- the same results were obtained as by the method of Griess-Ilosway. NO_3^- ion can be detected following reduction in acid solution.

Batalin, A. Kh.

USSR/Soil Science. Physical and Chemical Properties of Soils.

I-3

Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22466

Author : Batalin, A. Kh., Shifrina, P.N.

Inst :

Title : The Content of Copper, Cobalt and Molybdenum in Some Soils
of the Chkalov Oblast'.

Orig Pub: Vestn. Chkalovsk. otd. Vses. khim. o-va im. D.I. Mendeleeva,
1956, No 6, 45-48.

Abstract: A brief report of results of determination of the Cu, Co and Mo
content of soils of the Adamov Rayon of the Chkalov Oblast'.
Two soil sections of slightly salty southern chernozem were
tested. The soil preparation and analysis were conducted in
accordance with the method suggested by the Institute of geo-
chemistry and analytical chemistry, Academy of Sciences, USSR
(Methods of Determining Trace Elements, Moscow, 1950). The
content of the above-mentioned elements in the upper soil layer

Card : 1/2

-18-

Country : USSR
Category : Soil Science. Physical and Chemical Proper-
ties of Soils.
Abs Jour : RZhBiol., No 6, 1959, No 24611
Author : Batalin, A. Kh.; Bogdanova, Ye. S.; Popova,
A. A.; Sadovskaya, L. V.; Filimonova, Z. G.;
Khmelevskaya, N. A.; Shtark, P. A.
Inst : All-Union Chemical Society imeni D. I. Men-
deleyev
Title : The Contents of Boron, Cobalt, Copper, Mo-
lybdenum, Nickel, Manganese and Fluorine in
Certain Soils of the Sorochinskiy Rayon in
Chkalovskaya Oblast.
Orig Pub : Vest. Chkalovskogo otd. Vses. khim.
o-va im. D. I. Mendeleyeva, 1957, vyp. 7, 7-9
Abstract : Determination of the microelements was conduced
in the arable and subarable horizons of
chernozem soils under different cultivations.
Card : 1/3

USSR/Plant Physiology - Mineral Nutrition.

I.

Abs Jour : Ref Zhur - Biol., No 25, 1953, 104378

Author : Filimonova, Z.G., and Datalin, A.Kh.

Inst : Chkalov Oblast Branch of the All-Union Chemical Society
imeni D.I. Mendelyeva

Title : Molybdenum Content in Maize Seeds (Early Varieties)

Orig Pub : Vestn. Chkalovskogo Obl. Otd. Vses. Khim. O-va im. D.I.
Mendelyeva, vyp. 7, 15-16, 1957.

Abstract : No abstract.

Card 1/1

- 15 -

BATALIN, A.Kh.

The book of Menshutkin "Analytical chemistry" and its importance
in the development of chemical analysis. Zav. lab. 23 no.4:510-
512 '57.
(Chemistry, Analytical) (MLRA 10:6)

BATALIN, A.KH.

BATALIN, A.Kh.

Rapid method for detecting small quantities of manganese in soil.
Pochvovedenie no.9:124-125 S '57.
(MIRA 10:12)

1. Chkalovskiy sel'skokhozyaystvennyy institut im. A.A.Andreyeva,
Laboratoriya analiticheskoy khimii.
(Soils--Analysis) (Manganese)

S/075/60/015/004/028/030/XX
B020/B064

AUTHOR: Batalin, A. Kh.

TITLE: Reduction of Tetravalent Selenium With l-Ascorbic Acid

PERIODICAL: Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 4,
pp. 507 - 508

TEXT: The present paper gives the results obtained by a study of the reduction of tetravalent selenium by l-ascorbic acid in an acid medium. l-ascorbic acid sets free elementary selenium from selenite solutions. This reaction is extremely sensitive, and may be used to detect and determine selenium in the presence of tellurium, and to detect and determine l-ascorbic acid. If a dilute l-ascorbic acid solution (0.1 - 1 mg in 1 ml) is added to an aqueous solution of a salt of selenious acid, orange-colored elementary selenium is almost instantly precipitated. The accuracy of selenium detection is 0.01 mg Se/ml solution, and that of the detection of l-ascorbic acid is 0.08 mg/ml solution. The solutions of the salts of Zn, Cd, Pb,

Card 1/3

Reduction of Tetravalent Selenium
With l-Ascorbic Acid

S/075/60/015/004/028/030/XX
B020/B064

Bi, Mn, Cr, Al, Hg²⁺, Ni, Co, of alkali- and alkaline-earths metals, and also dilute solutions of the salts of Cu, Ag, Hg⁺, Fe³⁺ or solutions of Te⁴⁺ salts which react only with ascorbic acid solutions of higher concentrations (more than 1 mg/ml), do not affect the reaction. Oxidizing agents exert no essential influence upon the reduction of tetravalent selenium if a reagent excess is taken. Iodides, thiocyanates, sulfides, sulfites, tin chloride, Fe²⁺, thiourea, and other reducing compounds affect the reaction. The reduction of tetravalent selenium with l-ascorbic acid proceeds quantitatively and most favorably at pH 1. For this reason, 2 M sulfuric acid solution (1 ml of acid per 2 ml of reaction mixture) must be added to the reaction mixture. Reduction is also promoted by heating to 80 - 90°. When boiled, the orange-colored selenium passes over into the black-brown modification which separates easily from the liquid. The results show that it is possible to detect Se in the presence of Te and a number of other metals with l-ascorbic acid. Ascorbic acid has several advantages over other reducing agents

Card 2/3

Reduction of Tetravalent Selenium
With L-Ascorbic Acid

S/075/60/015/004/028/030/XX
B020/B064

for tetravalent selenium. Under certain conditions it reduces tetravalent selenium, while tellurium compounds remain unchanged.

ASSOCIATION: Orenburgskiy sel'skokhozyaystvennyy institut
(Orenburg Agricultural Institute)

SUBMITTED: November 16, 1959

Card 3/3

BATALIN, A.Kh., dotsent

Conference on a wider use of chemical fertilizers in agriculture in
the Orenburg Province. Zhur.VKHO 6 no.3&346-347 '61. (MIRA 14:6)
(Orenburg Province—Fertilizers and manures—Congresses)

UDOVIN, G.M., prof., red.; BATALIN, A.Kh., dots., red.; SOLNTSEVA, A.Ye., dots., red.; OLIPSON, L.Ye., dots., red.; KUCHERENKO, V.D., dots., red.

[Chemicalization of agriculture in Orenburg Province] Khimizatsii sel'skogo khoziaistva Orenburgskoi oblasti; trudy. Orenburg, Orenburgskii sel'khoz. in-t, 1961. 114 p.

(MIRA 16:1)

1. Konferentsiya po khimizatsii sel'skogo khozyaystva Orenburgskoy oblasti, 2d. 2. Orenburgskiy sel'skokhozyaystvennyy institut (for all).

(Orenburg Province—Agricultural chemistry)

S/153/62/005/005/010/011
E071/E133

AUTHOR: Batalin, A. Kh.

TITLE: Anestesin - specific reagent for the cation of cerium (IV)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Khimiya i khimicheskaya tekhnologiya, v.5, no.5, 1962, 845-846

TEXT: Anestesin (ethyl ester of p-aminobenzoic acid) is oxidised only by cerium (IV) cation forming coloured solutions from violet to pink depending on the concentration of cerium and the reagent. The colour intensity depends on the pH of the medium, optimum pH being 5-6. The coloration is comparatively stable. The sensitivity of the reaction between Ce(IV) and anestesin is small. The detectable minimum is 20 μ , and the limiting dilution 1:50 000. The presence of other ions has no practical influence if their quantities do not exceed the limiting ratios of 1:10 and they have no reducing properties. It is concluded that the reagent can be used for the detection and determination of Ce^{4+} in the presence of practically all cations, providing reducing agents are absent.

Card 1/2

BATALIN, A.Kh., dotsent; UDOVIN, G.M., prof.

Third Conference on Chemicalization of Agriculture in the
Orenburg Province. Zhur. VKHO 7 no.6:687-688 '62.
(MIRA 15:12)
(Orenburg Province--Agricultural chemistry)

BATALIN, A.Kh., prof.; BARMENKOV, Ya.P., prof., red.; UDOVIN, G.M.,
prof., red.

[Qualitative chemical analysis of inorganic substances; a
manual for students of agronomic, zootechnical, and veteri-
nary departments of agricultural institutions of higher learn-
ing] Kachestvennyi khimicheskii analiz neorganicheskikh ve-
shchestv; rukovodstvo dlia studentov agronomicheskikh, zootekh-
nicheskikh i veterinarnykh fakul'tetov. sel'skokhoziaistvennykh
vysshikh uchebnykh zavedenii. Orenburg, Orenburgskii sel'khoz.
in-t, 1963. 293 p. (MIRA 17:3)

BATALIN, A.Kh., prof.; UDOVIN, G.M., prof.

The fourth conference on the chemicalization of agriculture in
Orenburg Province. Zhur. VKHO 8 no.6:689-690 '63. (MIRA 17:2)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7

Hydrogeological
bulletin

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7"

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7

BATALIN, A.M.

Projection method for processing wind observations. Trudy Dal'me-
vost. NIGMI no.1:77-96 '56.
(MIRA 11:10)
(Winds)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920008-7"

BATALIN, H. M.

STOTSEMKO, A.V.; BATALIN, A.M.

Hydrometeorological conditions for the recovery of salt on
the Sea of Okhotsk coastal region. Trudy Dal'nevost.fil.AN
SSSR, Ser.khim. no.2:20-42 '56. (MLRA 10:2)

(Okhotsk region--Salt industry) (Sea water)

BATALIN, H.N.

PHASE I BOOK EXPLOITATION 752

Akademiya nauk SSSR. Okeanograficheskaya komissiya

Okeanologicheskiye issledovaniya severo-zapadnoy chasti Tikhogo Okeana
(Oceanographic Research of the Northwestern Part of the Pacific
Ocean) Moscow, Izd-vo AN SSSR, 1958. 148 p. (Series: Its:
Trudy, t. 2) 1,600 copies printed.

Resp. Ed.: Zenkevich, L.A., Corresponding Member, USSR Academy of
Sciences; Ed. of Publishing House: Reznichenko, O.G.; Tech. Ed.:
Polyakova, T.V.

PURPOSE: The collection of articles is intended for oceanographers
and naval personnel, and also for piscatologists.

COVERAGE: This collection of articles reports the results of obser-
vations made in the Pacific by the Institute of Oceanology of the
Academy of Sciences, USSR. In 1949, the Institute launched a
systematic five-year program of scientific exploration of certain
hydrographic peculiarities of the Soviet Pacific area. The

Card 1/24
5

Oceanographic Research (Cont.)

752

This introductory article lists discoveries made by the Complex Expedition of the Institute of Oceanology and discusses each subject of interest separately. The measurement of currents was attempted up to the depth of 4,600 meters. A general structural similarity was established between the conditions in the Bering Sea and those in the adjacent Pacific. It was found that warm currents mix with cold currents from the North approximately around the area between Moneron Island and Sakhalin Island. The temperature of water in the Bering Straits was found to be much warmer than expected and no minus temperatures were found to occur in any layer at any depth. Furthermore, water of the Bering Sea showed a high percentage of biogenic elements.

Badigin, K.S. Main Objectives of the Institute of Oceanology in Exploring Far Eastern Seas

13

The article points out that exploration programs and navigational aids should be devised by the Institute itself, and not by organizations which have commercial interests in the Pacific. The Institute is expected: 1) to publish atlases of currents; navigation charts for ice conditions; charts for predicting ice

Card 3/14

5

Oceanographic Research (Cont.)

752

Batalin, A.M. Oceanological Exploration of Far Eastern Seas With
Regard to Piscatology

28

This is a resume of a report. It urges special study of the migration of fish to facilitate finding the areas of accumulation. A program of taking systematic photographs during the first 10 days of February, May, August, and November is recommended. This should be done by several vessels simultaneously. The article mentions that such methods have already been successfully used by the Japanese.

Bruevich, S.V. Chemical Investigations Carried Out by the Institute of Oceanology in Far Eastern Seas and the Adjacent Areas of the Pacific Ocean

29

Reference is made to Vol. 17 of Trudy of the Institute of Oceanology which contains the full text of the problems discussed in the present collection. The subjects of this article are chemistry of sedimentation, observations of the behavior of oxygen, pH, alkalinity, and the presence of various chemical elements.

Card 5/14
5

BATALIN, A.M.

Oceanographic research in the Far East waters in connection with
the development of fishery. Trudy Okean. kom. 3:28 '58.(MIRA 11:8)
(Far East--Oceanographic research)
(Far East--Fisheries)

BATALIN, A. M.

AUTHOR: Berdichevskiy, L. S., Candidate of Biology 30/30-58-7-41/49

TITLE: Biological Foundations of Ocean Fishing (Biologicheskiye osnovy okeanicheskogo rybolovstva) All-Union Conference (Vsesoyuznoye soveshchaniye)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 7, pp. 131-133 (USSR)

ABSTRACT: The Ichthyological Committee of the AS USSR (Ikhtiologicheskaya komissiya Akademii nauk SSSR) together with the All Union Scientific Research Institute for Ocean Fishing Economics and Oceanography /VNIRO/ (Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii /VNIRO/), and the Institute for Oceanography of the AS USSR (Institut okeanologii Akademii nauk SSSR) held this conference April 11 - 16. It was attended by: representatives of a great number of biological scientific research institutions of branch institutes of fishing industry, of many universities and a number of Councils of Economy. The following lectures were held:
1) A. M. Batalin } On new data concerning oceanological
 V. V. Leont'yeva } conditions in a number of regions of the
 V. A. Burkov } Pacific Ocean (Tikhiy okean)

Card 1/3

Biological Foundations of Ocean Fishing.. All Union Conference

SOV/30-58-7-41/49

- 2) G. M. Biryulin on the utilization of oceanological data in ocean fishing.
- 3) V. G. Bogorov on the qualitative and quantitative distribution of ground- and plankton organisms.
- 4) Ye. A. Pavshiks on the characteristic features of the food basis of herrings in the Norwegian and Greenland Seas (Norvezhskoye i Grenlandsckoye morya)
- 5) T. S. Rass on the basic purposes of Ocean fishing.
- 6) P. A. Moiseyev on regularities in the distribution and the biology of ichthyofauna of commercial interest in the western part of the Pacific Ocean.
- 7) I. G. Yudanov and Yu. Yu. Marti on biological peculiarities of the accumulation of Atlantic and Scandinavian herring of commercial interest in autumn and winter.
- 8) Yu. V. Novikov, V. G. Osipov, S. M. Kaganovskaya, B. N. Ayushin, and A. G. Kaganovskiy on the biological foundation of the development of Soviet fishing trade for different fishes.
- 9) V. A. Borodatov and Yu. L. Karpechenko on the conditions and prospects of herring fishing in the North Atlantic.
- 10) B. P. Manteyfel', L. A. Chayanova, M. I. Ryzhenko, and F. M. Mazayev on the biological foundations of herring fisheries in the North Atlantic.

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Biological Foundations of Ocean Fishing. All-Union Conference SOV/30-58-7-41/49

- 11) K. I. Yudanov, V. G. Azhev, and O. N. Kiselev on the application of hydroacoustic equipment for fishing.
- 12) Yu. Yu. Marti on the prospects of ocean fishing in the USSR. In order to guarantee the further development of Soviet ocean fishing an investigation of oceanological conditions must be made possible. This can be done most effectively by organizing scientific commercial expeditions. For this purpose, however, modern ships are necessary which are equipped with corresponding scientific apparatus. Coordinated plans of research must be worked out by the committee and the institute.
- 13) D. D. Romanov, P. A. Moiseyev, and K. A. Golovinskaya on the progressing radioactive contamination of waters, fishes, animals, and plants in the ocean caused by atomic bomb tests.

Card 3/3

SOV/49-59-7-8/22

AUTHOR: Batalin, A. M.

TITLE: The heat balance of the Far East Seas

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,
1959, Nr 7, pp 1003-1010 (USSR)

ABSTRACT: The results of calculations (Table 1) of the heat balance of the sea surface stretching from the Behring Straits to the China Sea (Fig 1) are given. It is shown that the balance is negative and the loss of heat has been compensated by means of warm currents from the North West Pacific. The observations show that various areas of the sea developed their own type of heat exchange between the sea and the atmosphere. These are illustrated in Table 1, where the principal components (1st column) of heat balance (in kcal/cm²) are shown for the defined seas. The components are as follows: 1 - the radiation of the sun Q_s , 2 - the effective radiation Q_{eff} , 3 - radiation balance Q_r , 4 - loss of heat due to evaporation, 5 - loss of heat due to convection, etc., 6 - total of 4 and 5, 7 - heat balance of the sea surface (Fig 1). Each component is given as a total per year, per warm period and per cold period. Columns 2 to 7 represent the following areas: Yellow and

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SOV/49-59-7-8/22

The heat balance of the Far East Seas

West China seas, Japan sea, Okhotsk sea, Behring straits, observation stations T and X, respectively. Figs 2 and 3 illustrate the annual variation of the heat balance for a - Behring Sea, b - Okhotsk Sea, c - Japan sea, d - Yellow Sea (Fig 2), and a - station X, b - station T (Fig 3), where 1 - total heat balance, 2 - total radiation of sun, 3, 4 - loss due to evaporation and convection, respectively, 5 - effective radiation. Table 2 shows a case of the heat loss due to the evaporation affected by the Curacao stream in the deep part of the East China Sea. There are 2 tables, 3 figures and 17 references, of which 13 are Soviet and 4 are English.

ASSOCIATION: Dal'nevostochnyy gosudarstvennyy universitet (Far East State University)

SUBMITTED: November 19, 1958.

Card 2/2

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Calculating the heat balance of the Bering Sea. Trudy Okean.kom.
7 23-36 '60. (MIRA 13:7)

1. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.
(Bearing Sea--Temperature)

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Calculating the heat balance of the Sea of Okhotsk. Trudy Okean.
kom. 7:37-51 '60. (MIRA 13:7)

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(Okhotsk, Sea of—Temperature)

Okhotsk
Pravilnyi
Pravilnyi

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Current status and prospects in oceanological research in the Far East.
Izv. Sib. otd. AN SSSR no. 9:3-16 '60. (MIRA 13:11)

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(Pacific Ocean--Oceanographic research)

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State of the Kuroshio and fishery problems. Trudy sov. Ikht. kom.
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Papers submitted for the 19th Pacific Science Congress, Honolulu, Hawaii 21 Aug-
6 Sep 1961.

- ABRAO, G. V., MEDVINA, I. F., ZAKHAROV, Iu. K., ZEMERICH, R. L.,**
TRABOL, A. O., TALINA, N. I., MASTA, N. A., and UMINOV, G. I.,
All from the Institute of Oceanology, Academy of Sciences USSR -
"The bottom relief of the Pacific Ocean and its cartographic
representation" (Section VII.C)
- AKHIEZERYAN, A. P.,** Institute of Zoology, Academy of Sciences USSR -
"Problems in the study of the faunistic and the problems of their
development in the Pacific Ocean" (Section III.C)
- AKHIEZERYAN, A. P., and SOKOLOV, A. A., Institute of Oceanology,**
"The biological characteristics of the Pacific Ocean" (Section VII.C.)
- APKARIAN, O. D.,** Name buried, but may be APKARIAN, O. D.,
Institute of Zoology, Institute of Zoophysics, Herpetology, Ichthyology,
and Ornithology - "Title of paper is buried; Voluntary is
appropriate title" (Section VII.C)
- ARMANDOVICH, K. V., Institute of Oceanology -**
"Geophysical data" (Section VII.C.)
- BALASHOV, N. N., Institute of Earth Physics Leningr. o. Yu. Schmidt -**
"The character of processes and eruptions in the earthquake zone of the
Pacific seismic zone" (Section VII.C.)
- BALASHOV, N. N., Institute of Zoology, On the Pacific origin of**
the Amuridae family" (Section VII.C.)
- BERGELMAN, L. M., University of Western Ontario -**
"On the best processes
in the western part of the Pacific" (Section VII.C.)
- BENEDICT, K. V., Institute of Oceanology -**
"On the transformation
of the planation or the Pacific drift and in the adjacent waters"
(Section III.C.)
- BENEDICT, V. V., and SHIBATA, Ya. Ya., Institute of Dutch Pacific Study**
o. Yu. Schmidt - "Genesis and age of the abyssal depression of
the sea of Japan" (Section VII.C.)
- BENYAEV, G. M., Institute of Oceanology - "Accumulations of sand**
beaches and short reefs at the ocean floor" (Section VII.C.)
- BENYAEV, P. I., Institute of Oceanology - "Recent sedimentation**
and the geological history of the Okhotsk sea" (Section VII.C.)
- BENYAEV, P. I., KERZHNEV, A. P., PELLIN, V. P., and SEMENOV,**
"Institute of Oceanology - Recent sediments of the Pacific"
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- BENYAEV, P. I., and VENKOVSKAYA, N.,** Your Institute of Oceanology -
"Some specific features in the geographical distribution of abyssal
pelagic animals (molluscs)" (Section VII.C.)
- BENYAEV, P. I., Institute of Oceanology - "The character of coastal lines**
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- BENYAEV, P. I., and TROFIMOV, M.,** Your Institute of
- of Oceanology - "The distribution of the neopelagic biomass in the**
Pacific Ocean" (Section VII.C.)
- BENYAEV, O. V., Institute of Geology Exploration of combustible**
ores - "The diagnostic changes in bottom sediments from
the central part of the Pacific" (Section VII.C.)
- BENYAEV, N. M., Institute of Geology - "Sedimentation and the regulari-**
ties in the distribution of mineral resources in the geological
basis of the Tertiary period in the areas of Kamchatka and the
Sakhalin Islands" (Section VII.C.)
- BENYAEV, Yu. V., and ZAKHAROV, Ya. D., Institute of Oceanology -**
"Chemical features of sediments and ground solutions penetrating
soil layer in the Pacific (materials of the northwestern part)"
(Section VII.C.)
- BENYAEV, Yu. V., Institute of Oceanology - "A study of equatorial**
currents in the western Pacific" (Section VII.C.)
- BENYAEV, Yu. V., and SOKOLOV, A. A., Institute of Oceanology -**
"The formation of salt masses in the northern part of the Pacific
Ocean" (Section VII.C.)
- BENYAEV, Yu. V., Institute of Oceanology - "The ratios of formation**
and transition curves of anticrepices in the northern part of the
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